Phosphine

Grade	ULSI 5N7	ROY-LED 5N8	ULTIMA 6N
Purity, %	99.9997	99.9998	99.9999
Oxygen	≤0.1 ppmv	≤0.1 ppmv	≤100 ppbv
Nitrogen	≤1.0 ppmv	≤1.0 ppmv	≤100 ppbv
Carbon Dioxide	≤0.1 ppmv	≤0.1 ppmv	≤100 ppbv
Carbon Monoxide	≤0.1 ppmv	≤0.1 ppmv	≤50 ppbv
Methane	≤0.1 ppmv	≤0.1 ppmv	≤100 ppbv
Water	≤1.0 ppmv	≤0.5 ppmv	≤100 ppbv
Argon			≤100 ppbv
Arsine		≤0.1 ppmv	≤50 ppbv
Germane			≤50 ppbv
Hydrogen Sulfide			≤50 ppbv
Silane			≤50 ppbv

• All cylinders are individually analyzed

• Pneumatic valves, DIN and JIS connections are available upon request.

	Internal Volume	Liters	43.8	47.5	
DER	Cylinder Sizes >>	QN	QZ		
CYLINDER	Content	kg	18.2	18.2	
		lbs	40	40	
	Change Point*	lbs	6.1	6.7	

*Recommended Cylinder Change Point at NTP, based on Phase Break, or the amount of product left in the cylinder when the liquid phase has completely evaporated and only gaseous product is left (estimate based on ideal gas behavior).

SHIP	DOT Shipping Name	Phosphine	UN Number	UN 2199	Shipped as	
	DOT Classification	2.3 (2.1) Poison Gas	ECCN #	3C004	Liquefied	
	DOT Label	POISON GAS AND	Harmonized # 2848.00.9000		Gas	
		FLAMMABLE GAS	Harmonizeu #	2040.00.9000	Gas	

TECHNICAL DATA	Cylinder Pressure	594 psig		Vapor Pressure	Temp, °C	0.0	15.5	21.0	32.2	43.3
	@NTP	42.8 atm			Press, psig	310	449	594	641	799
	Specific Volume	0.712 m³/kg			Temp, °F	32	60	70	90	110
		11.4 ft³/lb								
	CAS No	7803-51-2		RFO Data	Size, mm	0.254	0.3556	0.508	0.762	1.016
	CGA/DISS/JIS	350/632/W22-14L			Size, inches	0.010	0.014	0.020	0.030	0.040
	Molecular Weight	33.99 g/mol			Flow, sccm	22393	42751	88216	196789	339291
	TLV	0.3 ppmv			Flow, scf/h	47	91	187	417	719
	Autoignition Temp	< 85°C	NTP = 21°C or 70°F and 101.3 kPa or 1 atm							

		Nominal Diamet	er (OD)xHeight*	Material of Construction		
Cylinder	Treatment	cm	Inches	Cylinder	Valve	
QN	ULTRA-LINE [®]	23x130/134/143	9x51/52.5/56	CS/Ni-lined	SS	
QZ	ULTRA-LINE II®	25x137/141/149	10x54/55.5/59	Aluminum	SS	

*Height is reported as the distance from the bottom of the cylinder to the cylinder neck/ center of the valve outlet/ top of the handwheel CS: Carbon Steel SS: Stainless Steel

▲ WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



PH₃